

Division of Life Science
LIFS 5260
Molecular and Biochemical Basis of Diseases

Course Description:

This course will cover advanced topics on the biochemical basis of human diseases, molecular medicine and structure based drug design.

Prerequisite:

LIFS 4760 or equivalent

Intended Learning Outcomes:

At the end of this course, students are expected to:

- Gain knowledge about the molecular mechanism underlying certain human diseases.
- Learn how to apply knowledge from modern biomedical sciences to evaluate current treatments and envision potential future treatments.

Date/Time:	2016/17 Spring Semester Fri 10:30AM - 01:20PM
Venue:	Rm 6591, Lift 31-32
Course coordinator:	Prof. Kai Liu, kailiu@ust.hk x7277, office@5445

Feb 17	Mental Disorder	Prof. Kai Liu
Feb 24	Drugs and the Brain	Prof. Jun Xia
Mar 03	Protein Homeostasis in Health and Disease	Prof. Yusong Guo
Mar 10	Hippo signaling in cancer	Prof. Yan Yan
Mar 17	Disease modeling and drug screening using zebrafish model system	Prof. Zilong Wen
Mar 31	Student presentation	Prof. Kai Liu
Apr 7	Student presentation	Prof. Yusong Guo
Apr 21	Student presentation	Prof. Yan Yan
Apr 28	Student presentation	Prof. Zilong Wen
May 5	Student presentation	Prof. Jun Xia

[May 27 written reports due]

Assessment Scheme:

One topic will be assigned to each student. Each student will give one 25 minute oral presentation (40%) on an assigned topic/paper and five 1~2 pages written reviews on assigned papers, one per topic (50%). Attendance will be checked (10%).